## Tier 2 Site Cleanup Reports Accuracy Review Checklist

### Version 2 Software

The following document is used to review Tier 2V2.X Reports and conversions to Tier 2V2.X Reports. Additional comments are written, if necessary, in the margins referencing the area of concern. Responses may fall into the following categories:

Y - YES. Information meets qualifications as intended or presents the correct information.

N-NO.

N/A - Not Applicable.

Unk - Unknown. Not enough information provided to draw conclusion.

- 1- Information is inadequate
- 2- Information is inaccurate
- 3- Information not provided

Initial Tier 2 Y N  Date Tier 2 Report Received:  Reviewer:			Revised Tier 2 Subn  Date Tier 2 Review			N
			Date Tier 2 Review	v Complete		
Reviewer:				· complete	:d:	
		<del></del>				
Results of Review:Accepted	Reject	ted	•		•	
T2 Classification:High	Low	NAR			•	
Does the disk contain files for the Tie	r 2 evaluation	1?	Y	N	N/A	
If no, why?						
Are commingled plumes present?			Y	N	N/A	
Enter LUST number(s):				<del></del>		

# I. TIER 2 REPORT - BODY

A. Title Page:					
Is the title page complete?Y	N		1	2	3
List deficiencies:				_	
B. TIER 2 REPORT CHECKLIST (PAGES 2 & 3)				·	
Attachments checked are in report or referenced to a previously submitted report?Y	N	N/A	1	2	3
C. TIER 2 DATA BEFORE MODELING: SUMMARY (PAGES 4 & 5):					
Free product Present?	N	N/A	1	2	3
SCR conversion?				2	3
TEH required / reported?Y	N	N/A	1	2	3
Bedrock present?Y	N	N/A	1	2	3
Groundwater Maximums correct?Y		N/A	1	2	3
Are the source locations (x, y coordinates) accurate?Y	N	N/A	1	2	3
Soil Maximums correct?Y			1	2	3
Are the source locations (x, y coordinates) accurate?Y	N	N/A	1	2	3
Soil Gas Maximums correct?Y				2	3
Was any data ignored (under Data Adjustment section in software)?Y			1	2	3
If "Yes" has an adequate justification been provided for exclusion?Y	N	N/A	1	2	3
Initial Receptor evaluation subsection completed?Y	N	N/A	1	2	3
List deficiencies:					
D. SITE HYDROGEOLOGY					
Flow Migration					
Are the main plume/ flow direction and head gradient values consistent with the Groundwater Contamination Plume Maps?Y	N	N/A	I	2	3
Does hydraulic conductivity value match maximum computed?Y	N	N/A	1	2	3
Of the range of plume direction and range of groundwater flow direction, was the maximum en					
Y	N	N/A	. 1	2	3
If head gradient is equal to or less than 0.005, was a range of plume/flow set to at least 150 degr					
Y		N/A	. 1	2	3

					_
Y				2	3
				2	3
				2	3
Y	N	N/A	1	2	3
Y	N	N/A	1	2	3
Y	N	N/A	1	2	3
. 15 4. 1. T	.a. a.c	<b>***</b> \			
			,	2	3
					_
				_	3
				_	3
Y	N	N/A	1	2	3
<b>(R</b> )					
Y	N	N/A	1	2	3
		.+ <b>L</b>	9		
				2	2
					_
				_	3
Y	N	N/A	1	2	3
			<u>-</u>		
	vided? Y	vided? Y N	vided?Y N N/AY N N/A		vided? Y N N/A 1 2

Il required pathways evaluated (receptor type and risk identified)?	N	N/A N/A N/A N/A	1 1 1 1	2 2 2 2	3 3 3 3
Soil Leaching T2 Receptor Summary  Il pathway receptors required to be evaluated and listed under soil leaching?  St omitted pathways and receptors:  Soil Vapor/Soil to Plastic Water Line Receptor Summary  pathways, at T2, are initially classified NAR, confirmation samples collected?  Parrective Action selected for each failed pathway?  So to Tier 3" is selected if Corrective Action not designated?	N	N/A N/A N/A N/A	1 1 1 1 1	2 2 2 2	3 3 3 3
Soil Leaching T2 Receptor Summary  Il pathway receptors required to be evaluated and listed under soil leaching?  St omitted pathways and receptors:  Soil Vapor/Soil to Plastic Water Line Receptor Summary  pathways, at T2, are initially classified NAR, confirmation samples collected?  Parrective Action selected for each failed pathway?  So to Tier 3" is selected if Corrective Action not designated?	N	N/A N/A N/A	1 1 1	2 2 2	3 3 3
Il pathway receptors required to be evaluated and listed under soil leaching?	N	N/A N/A N/A	1 1 1	2 2 2	3 3 3
Soil Vapor/Soil to Plastic Water Line Receptor Summary  pathways, at T2, are initially classified NAR, confirmation samples collected?	N	N/A N/A N/A	1 1 1	2 2 2	3 3 3
pathways, at T2, are initially classified NAR, confirmation samples collected?	N N N	N/A N/A N/A	1 1	2	3
orrective Action selected for each failed pathway?	N N N	N/A N/A N/A	1 1	2	3
orrective Action selected for each failed pathway?	N N N	N/A N/A N/A	1 1	2	3
For to Tier 3" is selected if Corrective Action not designated?	N N	N/A N/A	1	2	_
Corrective Action Summary Completed" provided?			1	_	_
Corrective Action Summary Completed" provided?			1	2	3
		IN/A		2	3
Sampling Results					
fy sections are complete with <u>all previously obtained data for the site</u> . List deficiencies after	each	subsect	ion.		
a certified Lab been used for applicable samples of soil and groundwater obtained after Augu					
a certified Lab been used for applicable samples of soil gas obtained after September 1, 1998		N/A	1	2	3
a certified has been used for applicable samples of son gas obtained after september 1, 1990		N/A	1	2	3
Field Screening information tabulated?(not required for conversion of "Approved-SCR"):	'N	N/A	1	2	3
ist deficiencies:					

2. Soil Boring / Monitoring Well Placement:					
Adequate justification that sources are located is provided?Y	N	N/A	1	2	3
List deficiencies:				-	
3. Soil Analytical Data:					•
Appropriate Group 1 and 2 chemicals analyzed?Y	N	N/A	1	2	3
All current and historical data included?Y	N	N/A	1	2	3
BTEX levels determined from TPH/TEH defaults are identified?Y	N	N/A	1	2	3
TPH defaults: B - 1%, T - 7%, E - 2%, X - 8%. TEH defaults: B - 0.004%, T - 0.05%, E - 0.03%, X - 0.3%.					
List deficiencies:					
4. Groundwater Analytical Data:	 N	N/A	1	·	2
Appropriate Group 1 and 2 chemicals analyzed?					
All current and historical data included (specifically SMRs)?					3
Adequate data provided to construct a Groundwater Flow Direction Map:Y	N	N/A	1	2	3
List deficiencies:					· · ·
5. Soil Gas Analytical Data:				_	
Justification for representativeness of samples provided?Y					3
Justification for sample locations provided ?	N	N/A	1	2	3
Sample locations are adequate to clear soil source, groundwater source, or individual receptors as claimed?Y	N	· <b>N/A</b>	1	2	3
List deficiencies:			<u>-</u>		
6. Indoor Vapor Analytical Data:		<b>37</b> /1			
Justification for the representativeness of samples provided?Y	. N	N/A	l	2	3
List deficiencies:					•

### RECEPTOR SURVEYS (PAGES 14 - 18)

Verify sections are complete or referenced to a previously submitted report. List deficiencies after each subsection.

It survey completed includes 1,000 foot radius distance from source?  Y New includes all areas within the receptor ID plumes and actual plumes for leaching and groundwater ingestion pathways?  Y Normed a property owner or pedestrian survey to locate all water wells at a 300° of the contaminant source(s)?  Y Normed and all water wells within 1,000° of contaminant sources.  Y Normed and all water wells within 1,000° of contaminant sources.  Y Normed and all water wells within 1,000° of contaminant sources.  Y Normed a property owner or pedestrian survey to locate all water wells at a survey is current wells within 1,000° of contaminant sources.  Y Normed a property owner or pedestrian survey to locate all water wells at a survey is current wells within 1,000° of contaminant sources.  Y Normed a property owner or pedestrian survey to locate all water wells at a locate survey wells are supply wells at a survey wells are survey is current (public entities contacted to determine well locations provided?  Y Normed a property owner or pedestrian survey to locate all water wells water wells water wells water wells within 1,000° of contaminant sources.  Y Normed a property owner or pedestrian survey to locate all water wells within 1,000° of contaminant sources.  Y Normed a property owner or pedestrian survey to locate all water wells within 1,000° of contaminant sources.  Y Normed a property owner or pedestrian survey to locate all water wells within 1,000° of contaminant sources.  Y Normed a property owner or pedestrian survey to locate all water wells water wells within 1,000° of contaminant sources.  Y Normed a property owner or pedestrian survey to locate all water wells wat		I/A I/A I/A I/A	1 1 1	2 2 2	3
ain 300' of the contaminant source(s)?  In-granular bedrock sites - survey identifies public water supply wells ain one mile and all water wells within 1,000' of contaminant sources.  Yhaves and addresses of all well owners provided or previous submitted out referenced?  Yhaves of public entities contacted to determine well locations provided?  Yhaves is current (public entities contacted within last year)?  Yhaves if plugging methods not in accordance with 567-Chapter 39 IAC are excibed?		I/A I/A I/A	1	2	Ī
nes and addresses of all well owners provided or previous submitted ort referenced?	I N I N I N	I/A I/A	1	_	3
ort referenced?	I N	ī/A		2	
I survey is current (public entities contacted within last year)?	ı N		1		3
l plugging methods not in accordance with 567-Chapter 39 IAC are cribed?	•	I/A	•	2	3
ribed?Y				2	3
deficiencies:	I N	I/A	1	2	3
property owners within the largest applicable (a high/low risk receptor is present) receptor ID pled, including addresses?	ume	/ac	tual	plur	ne a
Y 1	I N	Ī/A	1	2	3
deficiencies:					
ECEPTOR SURVEY - COMMINGLED PLUME DISCUSSIONY N N/A 1	. 2	! 3	• .		
	JN	J/A	1	2	3
es (s) commingled identified?Y	• •		1	2	3
rs (s) commingled identified?Y 1 ne(s) and address(es) of property owners within commingled plumes listed?Y 1		I/A	_		3

K. OFF-SITE CONTAMINATION SOURCE SUPPORT DISCUSSIONY N N/A	1	2 3			
Site(s) of contamination identified?Y	N	N/A	1	2	3
Does discussion and documentation support an off-site source(s)?	N	N/A	1	2	3
List deficiencies:					
L. Free Product	1	2 3	3		
Description of free product recovery activities and other required information provided? Y	N	N/A	1	2	3
Narrative discusses status and effectiveness of product recovery?	N	N/A	1	2	3
	45				
M. RECEPTOR SURVEY - ENCLOSED SPACE/CONDUIT SURVEY (CROSS REFERENCE WATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor  ID plumes identified?		N/A	1	. 2	3
ATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor ID plumes identified?	N				3
ATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor ID plumes identified?	N N	N/A	1	2	-
ATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor ID plumes identified?	N N N	N/A N/A	1	2	3
ATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor ID plumes identified?	N N N	N/A N/A	1	2	3
ATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor ID plumes identified?	N N N	N/A N/A	1	2	3
ATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor ID plumes identified?	N N N	N/A N/A Unk	1 1	2 2	3 3
ATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor ID plumes identified?	N N N	N/A N/A Unk	1 1	2 2	3 3
ATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor ID plumes identified?	N N N	N/A N/A Unk	1 1 1	2 2	3 3
ATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor ID plumes identified?	N N N	N/A Vnk Unk N/A N/A	1 1 1 1 1	2 2 2 2 2	3 3 3
ATTACHMENT/APPENDIX 24):  All basements, sanitary sewer lines, and plastic water lines within the receptor ID plumes identified?	TH N	N/A Unk N/A N/A N/A	1 1 1 1 1	2 2 2 2 2 2 2	3 3 3 3

O. RISK JUSTIFICATION & CORRECTIVE ACTION (PAGE 19)					
Description of corrective action recommendation provided for each pathway?Y	N	N/A	1	2	3
High risk receptors requiring remediation identified?Y	N	N/A	1	2	3
Lowest soil source SSTL and receptor for which it was calculated provided?Y	N	N/A	1	2	3
Lowest groundwater source SSTL and receptor for which it was calculated provided?Y	N	N/A	1	2	3
List deficiencies:					
P. MONITORING PLAN (PAGE 21)					
Soil Gas Monitoring: (If the soil vapor to enclosed space pathway is complete, a plan must be p					
Justification section includes list of receptors to be monitored using soil gas?Y					3
Justification included for monitoring more frequently than annually?Y	N	N/A	1	2	3
Have the soil gas monitoring locations, each associated receptor, and monitoring frequency been listed?	N	N/A	1	2	3
List deficiencies:	- 4.				
Groundwater Monitoring Plan Table:	,				•
A separate table been completed for each applicable chemical identified by the Receptor ID Plume Maps?Y	N	N/A	1	2	3
Groundwater Monitoring Plan Comments/Justification section is completed?Y  List deficiencies:					3
II. PATHWAY ASSESSMENT ATTACHMENTS  A. GROUNDWATER PATHWAYS.					
II. PATHWAY ASSESSMENT ATTACHMENTS  A. GROUNDWATER PATHWAYS.  (Cross reference pathway attachments submitted with those boxes checked in the report checklist (	(page	s 2 and	3)).		
A. GROUNDWATER PATHWAYS.			,	<b>Y</b>	N
A. GROUNDWATER PATHWAYS.  (Cross reference pathway attachments submitted with those boxes checked in the report checklist of the control of t	aluat	ed?	•		N 3
A. GROUNDWATER PATHWAYS.  (Cross reference pathway attachments submitted with those boxes checked in the report checklist (  1a. Groundwater Ingestion—Drinking water well.  Required to be ev	aluat N	ed?		Y 2	
A. GROUNDWATER PATHWAYS.  (Cross reference pathway attachments submitted with those boxes checked in the report checklist (  1a. Groundwater Ingestion—Drinking water well. Required to be ex  Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y  Attachments provided for each chemical of concern requiring documentation?	valuat N N N	ed? N/A N/A N/A	1 1	Y 2 2	3
A. GROUNDWATER PATHWAYS.  (Cross reference pathway attachments submitted with those boxes checked in the report checklist (  1a. Groundwater Ingestion—Drinking water well.  Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y  Attachments provided for each chemical of concern requiring documentation?	valuat N N N	ed? N/A N/A N/A	1 1	Y 2 2	3

1b. Groundwater Ingestion - Non-drinking water well R	equired to be eval	uate	d?	3	?	N
Receptor ID Plume Map showing simulated plumes, receptors, and site features	provided?Y	N	N/A	1	2	3
Attachments provided for each chemical of concern requiring documentation?	Y	N	N/A	1	2	3
Receptor Evaluation Map(s) for each receptor inside receptor ID plume provide	d?Y	N	N/A	1	2	3
Have all monitoring wells which exceed a Tier 1 level been appropriately selected for a property boundary?					2	3
SSTL table provided for each receptor within the receptor ID plume?	Y	N	N/A	1	2	3
List deficiencies:						
Destroyed CVV course	tequired to be eva	luate	ed?		Y	N
2. Orbinia water ingestion 11000000	-				2	3
Receptor ID Plume Map showing simulated plumes, receptors, and site features					2	3
Attachments provided for each chemical of concern requiring documentation?.	, 1	.,	1414#	•	-	-
Receptor Evaluation Map(s) provided showing the closest boundary in each direction and an SSTL line area for most limiting boundary?	Y	N	N/A	1	2	3
Have all monitoring wells which exceed a Tier 1 level been appropriately selected for a property boundary?	Y	N.	N/A	1	2	3
SSTL table provided for each receptor within the receptor ID plume?	Y	N	N/A	1	2	- 3
List deficiencies:						
		-				
Dat Olounamater tapes	Required to be eva				Y	N
Is the source area(s) zoned for residential use?	Y	N	N/A	1	2	3
Receptor ID Plume Map showing simulated plumes, receptors, and site feature	s provided? Y	N	N/A	1	2	3
Attachments provided for each chemical of concern requiring documentation?	Y	N	N/A	1	2	3
Receptor Evaluation Map(s) for each receptor inside receptor ID plume provid	ed?Y	N	N/A	1	2	3
SSTL table provided for each receptor within the receptor ID plume?	Y	N	N/A	1	2	3
List deficiencies:						

b. Groundwater Vapor—Confined Space—Nonresidential. Required to be ev	aluate	ed?	•	Y	N
Is the source area(s) zoned for residential use?	N	N/A	1	2	3
Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y	N	N/A	1	2	3
Attachments provided for each chemical of concern requiring documentation?Y				2	3
Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided?Y	N	N/A	1	2	3
SSTL table provided for each receptor within the receptor ID plume?Y	N	N/A	1	2	3
List deficiencies:					
. Groundwater Vapor—Confined Space—Potential. Required to be ev	aluat	ed?		 Y	
Is the source area(s) zoned for residential use?				2	3
Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y				2	3
				2	3
Attachments provided for each chemical of concern requiring documentation?	14	NA	r	<u>.</u>	,
Receptor Evaluation Map(s) showing potential receptor boundaries, most limiting SSTL line,	NI	NT/A	1	2	3
and wells selected as T & G wells provided?Y					
SSTL table provided for each receptor within the receptor ID plume?Y	N	N/A	1	2	3
List deficiencies:					
a Groundwater Vapor—Sanitary Sewer—Residential. Required to be ev				Y	N
Is the source area(s) zoned for residential use?				2	3
Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y	N	N/A	1	2	3
V	N	N/A	1	2	3
Attachments provided for each chemical of concern requiring documentation?Y		N/A	1	2	3
Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided?Y	N				
"				2	3

Is the source area(s) zoned for residential use?	Groundwater Vapor—Sanitary Sewer—Nonresidential. Required to be eva				Y	N
Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y N N/A 1 2 3 Attachments provided for each chemical of concern requiring documentation? Y N N/A 1 2 3 Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided? Y N N/A 1 2 3 SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3 List deficiencies:	Is the source area(s) zoned for residential use?Y	N	N/A	1	2	3
Attachments provided for each chemical of concern requiring documentation? Y N N/A 1 2 3  Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  List deficiencies:  Groundwater Vapor—Sanitary Sewer—Potential. Required to be evaluated? Y N N/A 1 2 3  Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y N N/A 1 2 3  Attachments provided for each chemical of concern requiring documentation? Y N N/A 1 2 3  Receptor Evaluation Map(s) showing potential receptor boundaries, most limiting SSTL line, and wells selected as T & G wells provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  List deficiencies:  Groundwater to Plastic Water Line. Required to be evaluated? Y N N/A 1 2 3  Attachments provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  Attachments provided for each chemical of concern requiring documentation? Y N N/A 1 2 3  Attachments provided for each chemical of concern requiring documentation? Y N N/A 1 2 3  Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided? Y N N/A 1 2 3  SSTL table provided for each chemical of concern requiring documentation? Y N N/A 1 2 3  Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3	Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y	N	N/A	1	2	3
Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided?	Attachments provided for each chemical of concern requiring documentation?Y	N	N/A	1	2	3
SSTL table provided for each receptor within the receptor ID plume?					2	3
List deficiencies:  Groundwater Vapor—Sanitary Sewer—Potential.  Required to be evaluated?  Y N N/A 1 2 3  Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y N N/A 1 2 3  Receptor Evaluation Map(s) showing potential receptor boundaries, most limiting SSTL line, and wells selected as T & G wells provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  List deficiencies:  Required to be evaluated? Y N N/A 1 2 3  Attachments provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  Attachments provided for each chemical of concern requiring documentation? Y N N/A 1 2 3  Attachments provided for each chemical of concern requiring documentation? Y N N/A 1 2 3  Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y N N/A 1 2 3  Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  If plastic water lines are in simulated plume, have water samples been collected?  (cross reference GW analytical data table) Y N N/A 1 2 3					2	3
Is the source area(s) zoned for residential use?	-					
Is the source area(s) zoned for residential use?	Groundwater Vapor—Sanitary Sewer—Potential. Required to be ev	aluate	ed?		Y	N
Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y N N/A 1 2 3  Attachments provided for each chemical of concern requiring documentation? Y N N/A 1 2 3  Receptor Evaluation Map(s) showing potential receptor boundaries, most limiting SSTL line, and wells selected as T & G wells provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  List deficiencies:  Required to be evaluated? Y N N/A 1 2 3  Attachments provided for each chemical of concern requiring documentation? Y N N/A 1 2 3  Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  If plastic water lines are in simulated plume, have water samples been collected?  (cross reference GW analytical data table) Y N N/A 1 2 3		N	N/A	1	2	3
Attachments provided for each chemical of concern requiring documentation?	Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y	N	N/A	1	2	3
Receptor Evaluation Map(s) showing potential receptor boundaries, most limiting SSTL line,  and wells selected as T & G wells provided?	Attachments provided for each chemical of concern requiring documentation?	N	N/A	1	2	3
and wells selected as T & G wells provided?						
SSTL table provided for each receptor within the receptor ID plume?		N	N/A	1	2	3
List deficiencies:  Groundwater to Plastic Water Line.  Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y N N/A 1 2 3  Attachments provided for each chemical of concern requiring documentation? Y N N/A 1 2 3  Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided? Y N N/A 1 2 3  SSTL table provided for each receptor within the receptor ID plume? Y N N/A 1 2 3  If plastic water lines are in simulated plume, have water samples been collected?  (cross reference GW analytical data table) Y N N/A 1 2 3	SSTI table provided for each receptor within the receptor ID plume?Y	Ñ	N/A	1	2	3
Receptor ID Plume Map showing simulated plumes, receptors, and site features provided?Y N N/A 1 2 3 Attachments provided for each chemical of concern requiring documentation?						
Attachments provided for each chemical of concern requiring documentation?			-	· · · · · ·		
Attachments provided for each chemical of concern requiring documentation?	List deficiencies:				<b>Y</b>	N
Receptor Evaluation Map(s) for each receptor inside receptor ID plume provided?	List deficiencies:  Groundwater to Plastic Water Line.  Required to be even	valuat	ed?			N 3
SSTL table provided for each receptor within the receptor ID plume?	List deficiencies:  . Groundwater to Plastic Water Line. Required to be ex  Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y	valuat N	ed? N/A	1	2	_
If plastic water lines are in simulated plume, have water samples been collected?  (cross reference GW analytical data table)	List deficiencies:  Groundwater to Plastic Water Line.  Required to be every Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y  Attachments provided for each chemical of concern requiring documentation?	valuat N	ed? N/A N/A	1 1	2 2	3
(cross reference GW analytical data table)	List deficiencies:  Groundwater to Plastic Water Line.  Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y  Attachments provided for each chemical of concern requiring documentation?	valuat N N	ed? N/A N/A N/A	1 1 1	2 2 2	3
	List deficiencies:  Groundwater to Plastic Water Line.  Receptor ID Plume Map showing simulated plumes, receptors, and site features provided? Y  Attachments provided for each chemical of concern requiring documentation?	valuat N N	ed? N/A N/A N/A	1 1 1	2 2 2	3 3 3
	List deficiencies:  Groundwater to Plastic Water Line.  Required to be expected to Plume Map showing simulated plumes, receptors, and site features provided? You Attachments provided for each chemical of concern requiring documentation?	valuat N N	ed? N/A N/A N/A N/A	1 1 1 1	2 2 2 2	3 3 3

8. Surface Water.	Required to be eval	luate	d?	,	Y	N
Receptor ID Plume Map showing simulated plumes, receptors, and site featur	es provided? Y	N	N/A	1	2	3
Allowable Discharge form provided?					2	3
Attachments provided for each chemical of concern requiring documentation					2	3
Receptor Evaluation Map(s) for each receptor inside receptor ID plume provi					2	3
SSTL table provided for each receptor within the receptor ID plume?					2	3
List deficiencies:				_		
B. SOIL LEACHING PATHWAYS.  (Cross reference pathway attachments submitted with those boxes checked in the	e report checklist (p	ages	2 and	3)).	-	
9. Soil Leaching to Groundwater.	Required to be eva	luate	: <b>d</b> ?	,	Y	N
9-1a. Groundwater ingestion - drinking water well	Y	N	N/A	1	2	3
Is a receptor ID plume map showing simulated plumes in relation to receptor		-				
				1	2	3
Is a Soil SSTL table provided?	•				2	3
9-1b. Groundwater ingestion non-drinking water well	Y	N	N/A	1	2	3
Is a receptor ID plume map showing simulated plumes in relation to receptor						
				1	2	3
Is a Soil SSTL table provided?					2	3
9-2. Groundwater ingestion—potential groundwater source	Y	N	N/A	1	2	3
Is a receptor ID plume map showing simulated plumes in relation to receptor						
				1	2	3
Is a Soil SSTL table provided?	Y	N	N/A	1	2	3
9-3a. Groundwater vapor—confined space—residential	Y	N	N/A	1	2	3 .
Is a receptor ID plume map showing simulated plumes in relation to receptor						
				1	2	3
Is a Soil SSTL table provided?						3
9-3b Groundwater vapor—confined space—nonresidential	·÷ Y	N	N/A	1	2	3
Is a receptor ID plume map showing simulated plumes in relation to receptor				•	_	-
is a receptor in plante map showing sinulated plantes in relation to receptor				1	2	3
Is a Cail CCTT table provided?			N/A			

9-4. Groundwater vapor-—confined space—potentialY	N	N/A	1	2	3
Is a receptor ID plume map showing simulated plumes in relation to receptors and site features pr	ovid	ed?			
Ү	N	N/A	1	2	3
Is a Soil SSTL table provided?	N	N/A	1	2	3
9-5a. Groundwater vapor—sanitary sewer—residentialY	N	N/A	1	2	3
9-5b. Groundwater vapor—sanitary sewer—nonresidentialY			1	2	3
Is a receptor ID plume map showing simulated plumes in relation to receptors and site features pa					
У				2	3
Is a Soil SSTL table provided?Y	N	N/A	1	2	3
9-6. Groundwater vapor—sanitary sewer—potential			1	2	3
Is a receptor ID plume map showing simulated plumes in relation to receptors and site features p	rović	led?			
Ү	N	N/A	1	2	3
Is a Soil SSTL table provided?Y	N -	N/A	1	2	3
9-7. Groundwater to plastic water line			1	2	3
Is a receptor ID plume map showing simulated plumes in relation to receptors and site features p					
У	N	N/A	1	2	3
Is a Soil SSTL table provided?	N	N/A	1	2	3
9-8. Surface waterY			1	2	3
Is a receptor ID plume map showing simulated plumes in relation to receptors and site features p	rovio	ded?			
Υ	N	N/A	1	2	3
Is a Soil SSTL table provided?Y	N	N/A	1	2	3
List deficiencies:					<del>.</del> ,
				_	

10. Soil Vapor to Enclosed Space.	Required to be eva	luate	:d?	. '	Y	N
Soil Vapor to Enclosed Space Map provided for each chemical of concern exceeding a target level?	Y	N	N/A	1	2	3
Have all applicable receptor types been addressed (confined spaces / sanitary					_	
sewers; residential / nonresidential)?						•
Maps include appropriate scale, labels, and titles?	Y	N	N/A	1	2	3
Actual soil plume defined to appropriate target level including 50-foot extension to plume, with receptors shown?	Y	N	N/A	1	2	3
List deficiencies:			<u> </u>			
11. Soil to Plastic Water Line.	Required to be eva	luate	ed?	,	Y	N
Soil to Plastic Water Line Map provided for each chemical of concern exceeding a target level?	Y	N	N/A	1	2	3
Maps appropriately scaled and titles provided?	Y	N	N/A	1	2	3
Actual soil plume defined to appropriate target level including						
10-foot extension to plume, and receptors shown?	Υ	Ñ	N/A	1	2	3
List deficiencies:						
C. BEDROCK PATHWAY ASSESSMENT ATTACHMENTS.  (Cross reference pathway attachments submitted with those boxes checked in the	ne report checklist ()	nages	2 and	3)).		
COLORS TOTOLOGICO PARINAL SERVICIONES GUARANTE MARIE REGIO DO COLORS DE LA COLORS D	as report enternant (		, aa	-,,.		
What is the bedrock designation? (Choose only one)Exempt Non-Granular	anular	Gran	ular		_No	n-
Has an adequate justification for the designation been provided?	Y	N	N/A	1	2	3
Has an hydrogeologic X-section been included?	Y	N	N/A	1	2	3
Has the hydraulic conductivity table been included?	Y	N	N/A	1	2	3
Have TDS values been included?	Y	N	N/A	1	2	3
Granular and Non-granular - Assessment						
Soil plume defined to Tier 1 level for soil leaching to groundwater?	Y	N	N/A	1	2	3
All confined spaces within 50 feet of soil gas plume identified?	Y.	N	N/A	1	2	3
A minimum of three monitoring wells were installed 50 - 100 feet from soil	contamination? Y	N	N/A	1	2	3
If designation is granular, has the groundwater plume been defined to Tier 1	levels?Y	N	N/A	1	2	3

Groundwater Ingestion (actual & potential):				_	_
Hydraulic conductivity of 0.44 m/d or greater reported?	N	N/A	1	2	3
All drinking and non-drinking water wells within 1,000 feet of groundwater source				_	
(or soil source if no groundwater contamination) identified?Y	N	N/A	. 1	2	3
All drinking and non-drinking water wells within 1,000 feet of the contaminant sources				_	_
tested for chemicals of concern?Y	N	N/A	1	2	3
All public water supply systems (supply wells) within one mile of the groundwater source					
(or soil, if no groundwater contamination) sources identified?	N	N/A	1	2	3
Raw water from all public water supply systems within one mile of the contaminant sources					
tested for chemicals of concern?				2	3
For granular bedrock sites, sentry wells are adequately placed?Y	N	N/A	1	2	3
Has a map with above items plotted appropriately been included? Y	N	N/A	1	2	3
Groundwater Vapor to Enclosed Space:					
Soil gas plume defined to Tier 1 soil gas target levels?	N	N/A	1	2	3
At a minimum, soil gas is sampled at the expected maximum and near					_
monitoring wells with groundwater that exceeds a Tier 1 level? Y	N	N/A	1	2	3
Has a soil gas plume map been included?Y	N		1	2	3
Groundwater to Plastic Water Line:	•				
All plastic water lines within 200 feet of monitoring wells with groundwater				_	-
contamination that exceeds a Tier 1 level identified?	N	N/A	1	2	3
Estimate of average highest groundwater elevation reported?Y	N	N/A	1	_	3
Highest groundwater elevation is within three feet of an actual plastic water line?Y	N	N/A	1	2	3
Has a map locating appropriate plastic water lines been included?Y	N		1	2	3
Surface Water:				_	_
All surface water bodies within 200 feet of source identified?Y				2	3
Correct surface water designation provided?Y				2	3
Visual inspection conducted?Y	N	N/A	1	2	3
If visual inspection failed or groundwater in monitoring well closest to surface water exceeds					
a target level, was an allowable discharge concentration calculated?Y	N	N/A	1	2	3
Has a map locating all surface water bodies been included?Y	N		1	2	3
Soil Vapor to Enclosed Space - complete section 10, page 14 of this checklist.					
Has a map location all enclosed spaces with respect to the soil plume been included?Y	N		1	2	3
Soil to Plastic Water Line - complete section 11, page 9 of this checklist.				_	_
Has a map location all plastic water lines with respect to the soil plume been included?Y	N		1	2	3
Corrective Action Response	••			_	_
Has excavation or other active remediation for contaminated soil been recommended?Y	N	N/A	1	2	3

### D. OTHER MAPS.

12. Groundwater Summary Corrective Action Map			•		
The most limiting chemical has been selected for map development?Y	N	N/A	1	2	3
13. Soil Summary Corrective Action Map					
	N	NT/A	1	2	3
The most limiting chemical has been selected for map development?Y	IA	INIAL	•	2	د
14. Monitoring Plan Map					
Map includes all wells to be monitored for all high and low risk receptors?Y	N	N/A	1	2	3
Are transition and guard wells adequately located within the SSTL line area				_	
or secondary area for each receptor?	N	N/A	1	2	3
15. Land Owner Map					
Map includes roads, waterways, property boundaries, and structures?Y	N	N/A	1	2	3
Map includes all properties within receptor ID plumes classified high or low risk?Y	N	N/A	1	2	3
Numbered properties on map correspond with tabulated Affected Property Owner Table?Y	N	N/A	1	2	3
Map scale is illustrated?Y	Ň	N/A	1	2	3
16. X, Y Coordinates Map (for submittals after 10/30/97)	N	N/A	1	2	3
17. Zoning Map (required if non-residential target levels are used)					
Zoning information provided for areas encompassed by vapor pathways				_	
receptor id plumes?Y				_	3
Name and phone number of zoning official contacted provided?Y	N	N/A	1	2	3
If a zoning map was not included, was another method provided to confirm			_	_	_
the zoning designation?	N	N/A	I	2	3
				_	_
18. Groundwater Source Width/Length MapY	N	N/A	1	2	3
19. Soil Source Width/Length MapY	N	N/A	1	2	3

20. Soil Contamination Maps					
Soil contaminant plumes are defined to default or SSTLs?	N	N/A	1	2	3
Soil contaminant source(s) identified for all chemicals of concern?Y	N	N/A	1	2	3
A separate map is provided for each chemical of concern?	N	N/A	1	2	3
Map shows most recent sampling results for each sampling point?Y	N	N/A	1	2	3
Minimum number of soil samples collected?Y	N	N/A	1	2	3
Adequate number of borings installed to define plume?Y	N	N/A	1	2	3
Map shows location of soil gas sampling points and analytical results?Y	N	N/A	1	2	3
Map shows areas of over excavation along with pre-excavation and post-excavation sampling locations and analytical results?Y				2	3
21. Groundwater Contamination Plume Maps					
Groundwater contaminant plumes are defined to default or SSTLs?Y	N	N/A	1	2	3
Map provided for each chemical of concern?Y	N	N/A	1	2	3
Locations of all groundwater monitoring wells and analytical results used in the Tier 2 analysis are presented?	N	N/A	1	2	3
Adequate number of groundwater monitoring wells installed to define plume?Y	Ŋ	N/A	1	2	3
Map of site area, including roads, waterways, property boundaries, and structures,				2	3
etc. provided?Y		14/74	•	-	•
22. Groundwater Flow Direction Map					
Monitoring wells, measured groundwater elevations, contours, and flow direction shown?Y	N	N/A	1	2	3
Groundwater elevations measured on same date?(cross reference with GW data tabulation) Y	N	N/A	1	2	3
Wells constructed/screened in different aquifers are labeled?Y	N	N/A	1	2	3
Additional flow direction maps show significant deviations of groundwater flow?Y	N	N/A	1	2	3
23. Well Survey Map					
Locations of all water wells within the larger of 1000 feet or the receptor ID plume, (one mile for non-granular bedrock sites) shown?	N	N/A	1	2	3
Numbered locations on map correspond with information presented in Groundwater Well Survey Table?				2	3
Man scale is illustrated?Y	N	N/A	Í	2	3

24. Enclosed Space and Conduit Map					
All buildings with and without basements, sanitary sewer lines, and water					_
lines within the receptor ID plume shown?Y				2	3
Locations of vapor sampling points shown?	N	N/A	1	2	3
Numbered enclosed spaces and conduit receptors correspond with Enclosed  Space / Conduit Survey Table?	N	N/A	1	2	3
Copy of property owner access agreement, date of survey, or identification of property owner provided?Y				2	3
Map scale is illustrated?Y	N	N/A	1	2	3
If plastic water lines are present, map identifies locations where samples were collected? Y	N	N/A	1	2	3
25. Surface Water Map					
All surface water bodies within the larger of 500 foot radius or receptor ID plume					
are identified?Y	N	N/A	1	2	3
Numbered surface water body receptors correspond with Surface Water Survey Table?Y	N	N/A	1	2	3
Sampling locations and analytical results shown?Y				2	3
Areas inspected for sheen or residue are noted?Y				2	3
Map scale is illustrated?Y				2	3
26. Laboratory Data Sheets  Check for use of certified lab, OA-1/OA-2 methods; appropriate detection					
limits, TDS, chromatograms, chain of custody forms, holding times					3
limits, TDS, chromatograms, chain of custody forms, holding times					
limits, TDS, chromatograms, chain of custody forms, holding times					
limits, TDS, chromatograms, chain of custody forms, holding times	N	N/A	1		
limits, TDS, chromatograms, chain of custody forms, holding times	N	N/A	1	2	
limits, TDS, chromatograms, chain of custody forms, holding times.  All soil and groundwater analytical laboratory sheets are presented (if not previously submitted)?  List deficiencies:  27. Soil Vapor Monitoring Well Construction Diagrams  IDNR form 542-1392 used for all borings/monitoring wells, or previous report referenced?  Y	N	N/A N/A	1 1 1	2	3

List deficiencies:  29. Water Well Logs  Copies of all available water well logs provided?	8. Soil Boring Logs / Monitoring Well Construction Diagrams					
Vertical extent of contamination defined?  Form complete? (PID readings, static water level, construction specifications, depth interval of soil sample indicated, etc.)  Jetst deficiencies:  N N/A 1 2 1  List deficiencies:  N N/A 1 2 1  N N/A 1 2 1  N N/A 1 2 2 2  Explanation why K was recalculated provided?	IDNR form 542-1392 used for all borings/monitoring wells, or previous		37/4			_
Form complete? (PID readings, static water level, construction specifications, depth interval of soil sample indicated, etc.)	•					
depth interval of soil sample indicated, etc.)		N	N/A	1	2	3
9. Water Well Logs  Copies of all available water well logs provided?	Form complete? (PID readings, static water level, construction specifications, depth interval of soil sample indicated, etc.)	N	N/A	1	2	3
Copies of all available water well logs provided?	List deficiencies:			•		
Copies of all available water well logs provided?	9 Water Well Logs					
Analytical data related to the off-site source provided?	<del>-</del>	N	N/A	1	2	3
Analytical data related to the off-site source provided? Y N N/A 1 2  Provided maps show site, off-site source and groundwater flow direction? Y N N/A 1 2  1. Tier 1 Selected Information: - Site History (page 5)  Site History (page 5/T1) Y N N/A 1 2  Current Site Conductivity (page 10/T1) Y N N/A 1 2  Hydraulic Conductivity (page 10/T1) Y N N/A 1 2  Tier 1 Appendix 1 - Topographic Site Map Y N N/A 1 2  Tier 1 Appendix 4-Field Screening Map (not required for approved SCR) Y N N/A 1 2  Tier 1 Appendix 11 - Tank Tightness Test Results Y N N/A 1 2  Tier 1 Appendix 14 - Hydraulic Conductivity Measurements  A narrative summary of the K methodology provided (includes method of slug removal, method of data collection)  Y N N/A 1 2  Recovery data and variables with units provided? Y N N/A 1 2  Minimum of three slug tests performed? (approved SCRs - minimum of two) Y N N/A 1 2  Was K recalculated? Y N N/A 1 2  Explanation why K was recalculated provided? Y N N/A 1 2  Explanation why K was recalculated provided? Y N N/A 1 2  Explanation why K was recalculated provided? Y N N/A 1 2	**F					
Provided maps show site, off-site source and groundwater flow direction? Y N N/A 1 2  1. Tier 1 Selected Information: - Site History (page 5)  Site History (page 5/T1) Y N N/A 1 2  Current Site Conditions (page 6/T1) Y N N/A 1 2  Hydraulic Conductivity (page 10/T1) Y N N/A 1 2  Tier 1 Appendix 1 - Topographic Site Map Y N N/A 1 2  Tier 1 Appendix 2 - Site Plan Map Y N N/A 1 2  Tier 1 Appendix 4-Field Screening Map (not required for approved SCR) Y N N/A 1 2  Tier 1 Appendix 11 - Tank Tightness Test Results Y N N/A 1 2  Tier 1 Appendix 14 - Hydraulic Conductivity Measurements  A narrative summary of the K methodology provided ( includes method of slug removal, method of data collection)  Y N N/A 1 2  Recovery data and variables with units provided? Y N N/A 1 2  Calculations acceptable and include filter pack adjustment? Y N N/A 1 2  Minimum of three slug tests performed? (approved SCRs - minimum of two) Y N N/A 1 2  Was K recalculated? Y N N/A 1 2  Explanation why K was recalculated provided? Y N N/A 1 2  Explanation why K was recalculated provided? Y N N/A 1 2	0. Off-Site Contamination Source Support Data					
Provided maps show site, off-site source and groundwater flow direction? Y N N/A 1 2  1. Tier 1 Selected Information: - Site History (page 5)  Site History (page 5/T1) Y N N/A 1 2  Current Site Conditions (page 6/T1) Y N N/A 1 2  Hydraulic Conductivity (page 10/T1) Y N N/A 1 2  Tier 1 Appendix 1 - Topographic Site Map Y N N/A 1 2  Tier 1 Appendix 2 - Site Plan Map Y N N/A 1 2  Tier 1 Appendix 4-Field Screening Map (not required for approved SCR) Y N N/A 1 2  Tier 1 Appendix 11 - Tank Tightness Test Results Y N N/A 1 2  Tier 1 Appendix 14 - Hydraulic Conductivity Measurements  A narrative summary of the K methodology provided ( includes method of slug removal, method of data collection)  Recovery data and variables with units provided? Y N N/A 1 2  Calculations acceptable and include filter pack adjustment? Y N N/A 1 2  Minimum of three slug tests performed? (approved SCRs - minimum of two) Y N N/A 1 2  Was K recalculated? Y N N/A 1 2  Explanation why K was recalculated provided? Y N N/A 1 2  Explanation why K was recalculated provided? Y N N/A 1 2	Analytical data related to the off-site source provided?	N	N/A	1	2	3
Site History (page 5/T1)						3
Site History (page 5/T1)						
Current Site Conditions (page 6/T1)	· ·					
Hydraulic Conductivity (page 10/T1)	·				2	3
Tier 1 Appendix 1 - Topographic Site Map					2	3
Tier 1 Appendix 2 - Site Plan Map	Hydraulic Conductivity (page 10/T1)Y	N	N/A	1	2	3
Tier 1 Appendix 4-Field Screening Map (not required for approved SCR)	Tier 1 Appendix 1 - Topographic Site MapY	N	N/A	1	2	3
Tier 1 Appendix 11 - Tank Tightness Test Results	Tier 1 Appendix 2 - Site Plan MapY	N	N/A	1	2	3
Tier 1 Appendix 14 - Hydraulic Conductivity Measurements  A narrative summary of the K methodology provided (includes method of slug removal, method of data collection)  Y N N/A 1 2  Recovery data and variables with units provided?	Tier 1 Appendix 4-Field Screening Map (not required for approved SCR)Y	N	N/A	1	2	3
Tier 1 Appendix 14 - Hydraulic Conductivity Measurements  A narrative summary of the K methodology provided (includes method of slug removal, method of data collection)  Y N N/A 1 2  Recovery data and variables with units provided?	Tier 1 Appendix 11 - Tank Tightness Test Results	N	N/A	1	2	3
Recovery data and variables with units provided?						
Recovery data and variables with units provided?	A narrative summary of the K methodology provided (includes method of slug removal, methodology	od o	of data	coll	ectio	n)
Calculations acceptable and include filter pack adjustment?	Ү	N	N/A	1	2	3
Minimum of three slug tests performed? (approved SCRs - minimum of two)	Recovery data and variables with units provided?Y	N	N/A	1	2	3
Computed K values agree with lithologic data presented on the boring logs?	Calculations acceptable and include filter pack adjustment?Y	N	N/A	1	2	3
Was K recalculated?	Minimum of three slug tests performed? (approved SCRs - minimum of two)Y	N	N/A	1	2	3
Explanation why K was recalculated provided?	Computed K values agree with lithologic data presented on the boring logs?Y	N	N/A	1	2	3
DAPINIMION WILL IN AD IVOLUME PROVIDED IN THE	Was K recalculated?Y	N	N/A	1	2	3
Recalculated Hydraulic Conductivity (to be completed by reviewer if reviewer recalculates K)		N	N/A	1	2	3
Recoloniated Hydraniic ( 'onductivity - (to be completed by reviewer it reviewer recalculates K.)						
Recalculated K: m/d. Explain why K value was recalculated:						

### Default Assumptions for Hydraulic Conductivity

- 0.45 m/d at sites where reported K was not representative and cannot be recalculated.
- 5 m/d at exempt granular bedrock where K too high to measure.
- Reported or recalculated K at exempt granular bedrock where K >0.44 m/d.
- 0.44 m/d at exempt granular bedrock where reported or recalculated K was <0.44 m/d.</li>

Default Assumption for TDS when not measured: <2500 mg/L.

### F. Corrective Action Documentation - optional

32.  Declaration of Restrictive Covenants / Institutional Controls					
Form is dated?Y	N	N/A	1	2	3
Exhibit "A" is provided?Y	N	N/A	1	2	3
Description of restrictions is provided?Y	N	N/A	1	2	3
Name of declarant is entered?Y	N	N/A	1	2	3
Authorizing agent affixed signature?	N	N/A	1	2	3
Form is notarized?	Ŋ	N/A	1	2	3
Legal description of property provided?Y	N	N/A	1	2	3
Does institutional control prohibit / restrict use to appropriate distance from source?	N	N/A	1	2	3
Ordinance accepted?Y	N	N/A	1	2	3
Abandoned Water Well Plugging Records  IDNR FORM 542-1226 provided?	Ŋ	N/A	1	2	3
Water Supply (IDNR) / Designated County Agent Notification					
DNR form 542-1530 complete?	N	N/A	1	2	3
Site maps showing contamination provided?Y	N	N/A	1	2	3
Sanitary Sewer Notification					
IDNR form 542-1532 complete?Y	N	N/A	1	2	3
Site maps showing contamination provided?	N	N/A	1	2	3
Utility Company Notification			•		
IDNR form 542-1531 complete?Y	N	N/A	1	2	3
Site maps showing contamination provided?	N	N/A	1	2	3

Report of Plastic Water Line Removal and/or Relocation					
Report of replacement / relocation provided as an Appendix to the Tier 2 Report?Y	N	N/A	1	2	3
Documentation of Utility Company approval for replacement /relocation provided?Y	N	N/A	1	2	3
If plastic water line was replaced, have construction details (material of new pipe, backfill material, burial depth) been provided?Y	N	N/A	1	2	3
Have relocated plastic water lines been moved outside of both the simulated and actual plumes?	N	N/A	1	2	3
Documentation that relocation area is free of contamination provided?Y	N	N/A	1	2	3
Construction details (backfill material, burial depth) of relocated plastic water lines provided?Y	N	N/A	1	2	3
Scaled site diagram shows pertinent site features, soil and groundwater contamination, former and current location of plastic water lines, and location of new non-plastic water lines?	N	N/A	1	2	3
Report of Over Excavation (OE) Activities					
Report of the OE provided as an Appendix to the Tier 2 report?Y	N	N/A	1	2	3
Field screening conducted prior to OE to estimate extent of soil contamination?	N.	N/A	1	2	3
Was adequate field screening performed during the OE activities to identify maximum concentrations? (One soil sample for field screening every 100 square feet of the base and the each sidewall)	N	N/A	1	2	3
Was adequate confirmation soil sampling performed during the OE activities?  (One soil sample for laboratory analysis every 400 square feet of the base and 400 square feet of each sidewall)	N	N/A	1	2	3
Is OE less than 400 ft <sup>2</sup> of exposed surface?Y				2	3
If OE is less than 400 ft <sup>2</sup> of exposed surface, were a minimum of one soil sample from each sidewall and one soil sample from the base collected and				•	•
analyzed by a laboratory?				2	_
Results of visual observations and field screening presented?				2	3
	N	N/A	1	2	3
A scaled site diagram with the following illustrated:  Area of the original contamination	N	N/A		2	3
Dimensions and limits of the over excavation		N/A		2	
Field screening sample locations Y		N/A	-	2	3
Location of soil samples submitted for laboratory analysis	N	N/A		2	3
Groundwater sampling borehole and well locations		N/A		2	3
Pertinent site features such as buildings, roads, utilities etc.		N/A		2	3
Groundwater flow direction		N/A		2	3
Soil samples shipped to the laboratory within 72 hours?		N/A		2	3
Iowa certified laboratory used?		N/A		2	3
Was the appropriate OA-1 and / or OA-2 analysis conducted?		N/A		2	3
The state of the s	- 1		-	_	-

Documentation provided that soil was properly disposed of in accordance								
with 567-chapters 100, 101, 102, 120, and 121?Y	N	N/A	1	2	3			
Land application form documentation provided?Y	N	N/A	1	2	3			